

## Current status of the industry and mold manufacturing trends



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**Worldwide, the revolution in electronic computers has had a major impact on industrial production. In particular, the industry mold modern information technology (IT) has been widely used to quickly change the production process of traditional to high-tech manufacturing (CNC ); whereby the design stage and fabricate smart form gradually automate. (CAD / CAM - including: CAD is designed with the aid of electronic computers; CAM is produced with the help of computers, also known as numerical control machining).**

Countries with advanced industry such as Japan, Korea, Taiwan ... has formed links combinatorial model, for producing high quality molds, for each different technology areas:

- Professional design and manufacture of plastic molds, dies of cold, hot stamping, die-casting molds, injection mold flow, stamping auto ...
- Professional design and manufacture of standard sub-assemblies, serving the mold, such as the imperial standard mold, standard mold blocks, cylinder guides, springs, rubber molding wrinkle, the type of structure automatic feeders ...
- Professional services performed by heating the mold fabrication company;
- Supply all kinds of cutting tools for machining of molds;
- Providing specialized software CAD / CAM / Cimatron, CAE ...
- Professional services performed measurement, quality inspection mold ...

The model is the model link open, helping businesses with specialized investment conditions in each sector with CNC applications, towards automating the production process, in order to improve product quality and maximize the capacity of your device. Typically, the industrial model of production molds

(CNSXKM) of Taiwan. In 2002, Taiwan exported molds to other countries: China, USA, Indonesia, Thailand, Vietnam, ... totaling NT \$ 18,311,271,000, equivalent to 48,726 tons of mold. Taiwan's mold was assessed international standards but costs only 50% of imported, always applied by updating the new CN (CN new materials and technology, automation, IT) to process production.

In Vietnam, due to limited capacity to design and manufacture, new businesses currently meet only part mold manufacturer serving manufacturing mechanical products and parts for consumer companies foreign joint ventures. With these products with high technical requirements (washing machines, refrigerators, air conditioners, automobiles, motorcycles ...) most have to enter or import semi-finished products from abroad mold production.

One of the reasons that should be mentioned is the SXXM domestic firms most active in status to themselves, no coordination, linked together to go into the design and manufacture specialized in one or more items of the same type; equipment and facilities in most of the low level of technology; or which have invested high-tech equipment, but the duplication of investment due to the lack of cooperation between firms in manufacturing. Besides, the design of human resources, manufacturing and technology transfer were also distributed. Also by small producers should even enter alloy steel molds do well to import high cost. This explains why the cost of the business SXXM Vietnam is higher, leading to production efficiency is limited.

Development planning Hanoi metal engineering industry in the 2006-2010 period were identified: Focus on the product development groups: device sync; industrial products; Is the electrical equipment; automobile industry - Motorcycles; base metal products consumption. Among them, the basic product related to the use of templates is: industrial products, automotive products - motorcycles and a number of other industries such as manufacturing products from rubber and plastic serving industrial and household.

Survey results on actual demand for molds to 2010 singling separate dies, some company as follows: Company Thang Long Engineering: K.dap 1,500 sets; Unified Electromechanical Co. K. 75 sets stamping; Electrical machinery manufacturing company -HGR VN: K. stamping is 150 feet; Company Tracks East England Phil K. 500 sets stamping; ... And then there's huge demand for plastic molds, molding pressure ... So, at home, the market demand for the type of mold is very high. The problem for the state agency that is required to conduct planning activities to guide the development of industry SXXM; the work of the organization, coordination, collaboration, manufacturing links between the base was, to invest and develop CNSXKM achieve maximum efficiency.

The experience of Taiwan - a country with a developed industry CNSXKM shows, they are always updating and application of new materials and CN CN automation in the production process. Another important point is: the close link between production enterprises in the CNKM. Mould Association Taiwan (TMDIA) have gathered, linking more than 600 company; formed the design center, the combination molds for each industrial sector, as noted above. This is the division of labor and cooperation at a high level; helping businesses with specialized investment conditions in each sector with CNC applications, towards automating the production process. Thus, they have conditions to maximize their equipment capacity, improve productivity and product quality; focus investment in renewing equipment and technology. It was thanks to the collection, links that businesses avoid overlapping investment and minimize equipment depreciation expense in cost of products mold. This is evident in the quality and price of products on the market of Taiwan's mold.

Therefore, the trend of integration and international economic cooperation, to survive and sustainable development, the industry's CNSXKM Hanoi Vietnam as well as should have the right solution, as appropriate. If left in a state of active SXXM closed, the unit is difficult to ensure the quality of the product template l-pipe high and at low prices. Next time, should be established by industry associations SXXM. This is where the business will meet and exchange information at home and abroad, promoting

the image of your business as well as looking for a partner and business associate. Society has one of the close relationship with the Government, ministries; institutes and universities; with the State agency, which provides information about the guidelines, policies and mechanisms for management of technology and advanced equipment, the construction of uniform industry standards and targets safety standards for mold industry ... help businesses quickly grasp all the issues relating to the existence and development of themselves.

There is an association such organizations, industry SXXM own home as well as Hanoi, can overcome the weaknesses and shortcomings; firm owns the domestic market as well as carving out a niche overseas markets in the coming period.

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